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2 **ABSTRACT**

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4 Presbyopia is treated by a system using various lasers to remove a portion of the scleral tissue and
5 increase the accommodation of the presbyopic patient's eye. Stable accommodation is achieved by the
6 filling of the sub-conjunctiva tissue to the laser-ablated scleral areas. The proposed laser wavelength
7 ranges from ultraviolet to infrared of (0.15-0.36) microns, (0.5-1.4) microns and (0.9 - 3.2) microns. Both
8 scanning and fiber delivered systems are proposed to generate the ablation patterns. Laser ablation of the
9 sclera may be conducted with or without opening the conjunctiva layer.